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TI New trans-4-hydroxycinnamate decarboxylase - can be prepared from the microbial body of Klebsiella oxytoca using trans-4-hydroxycinnamic acid as the substrate.

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Trans-4-hydroxycinnamate decarboxylase (4-HCD) which can be prepared from the microbial body of Klebsiella oxytoca using trans-4-hydroxycinnamic acid as the substrate is new. Also claimed are: (A) a method for preparing 4-hydroxystyrene having a deuterium atom or its derivative site-selectively on vinyl position by decarboxylating trans-4-hydroxycinnamic acid or its derivative in the presence of 4-HCD; and (B) a deuterated-4-hydroxystyrene of formula (II). D = deuterium; R = H, lower alkyl, OH or lower alkoxy 1 to 4 of which can be present on the benzene ring.

ADVANTAGE - The method can prepare a deuterated-4-hydroxystyrene site-selectively in a high yield.

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